ANALYTICAL REPORT

Eurofins TestAmerica, Houston 6310 Rothway Street Houston, TX 77040 Tel: (713)690-4444

Laboratory Job ID: 600-185397-1

Client Project/Site: ITC WW-20190510-002-Day 8 05-10-19

For:

Cardno, Inc 970 Wedgewood Drive Crystal Lake, Illinois 60014

Attn: Ms. Cheryl Hennessy

Dem a Jornen

Authorized for release by:

5/28/2019 10:07:28 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Project/Site: ITC WW-20190510-002-Day 8 05-10-19

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Case Narrative

Client: Cardno, Inc Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Job ID: 600-185397-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative 600-185397-1

Comments

No additional comments.

Receipt

The samples were received on 5/13/2019 4:02 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.4° C and 5.0° C.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC

Method(s) 531.1, 531.1 LL: The continuing calibration verification (CCV) associated with batch 680-571330 recovered outside acceptance criteria, low biased, for Carbaryl. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 531.1: This sample failed high for ISTD and was a non detected. This sample has been reported.

WW-20190510-002-Day 8 (600-185397-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8081A: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 600-265085 and analytical batch 600-265202 recovered outside control limits for the following analytes: Dicofol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 608: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 600-265085 and analytical batch 600-265203 recovered outside control limits for the following analytes: Dicofol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 608: The continuing calibration verification (CCV) associated with batch 600-265203 recovered above the upper control limit for Toxaphene(55.3%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 600-265203/5).

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 600-265202 recovered above the upper control limit for Toxaphene(56.5%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 600-265202/5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with method Nonylphenols aqueous in preparation batch 320-296808.

Method(s) 3510C, 608: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: WW-20190510-002-Day 8 (600-185397-1) and WW-20190510-200-Day 8 (600-185397-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Method Summary

Client: Cardno, Inc Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Method	Method Description	Protocol	Laboratory
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL CC
Organotins/GCMS	Organotins (GC/MS)	TAL SOP	TAL BUR
WS-MS-0010	Nonylphenols	TAL SOP	TAL SAC
608	Organochlorine Pesticides in Water	40CFR136A	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
531.1	Carbamate Pesticides (HPLC)	EPA	TAL SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUR
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL SAC
3510C LVI	Liquid-Liquid Extraction (Separatory Funnel) LVI	SW846	TAL HOU
608	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	TAL HOU
CWA_Prep_CLLE	Liquid-Liquid Extraction (Continuous)	40CFR136A	TAL CC

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL CC = Eurofins TestAmerica, Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Sample Summary

Client: Cardno, Inc Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-185397-1	WW-20190510-002-Day 8	Water	05/10/19 11:30	05/13/19 16:02	
600-185397-2	WW-20190510-200-Day 8	Water	05/10/19 11:30	05/13/19 16:02	

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Client Sample Results

Client: Cardno, Inc Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Lab Sample ID: 600-185397-1 Client Sample ID: WW-20190510-002-Day 8

Date Collected: 05/10/19 11:30 **Matrix: Water**

Date Received: 05/13/19 16:02

Method: 625 - Semivolatile Orç Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	0.861	U	10.0	0.861	ug/L		05/17/19 15:00	05/20/19 07:41	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	81	Quantities	26 - 120				05/17/19 15:00		
P-Fluorobiphenyl	76		22 - 120					05/20/19 07:41	
Ferphenyl-d14	71		10 - 134					05/20/19 07:41	
Phenol-d5 (Surr)	80		10 - 120					05/20/19 07:41	
2-Fluorophenol	68		10 - 120					05/20/19 07:41	
2,4,6-Tribromophenol	96		24 - 131				05/17/19 15:00	05/20/19 07:41	
Method: Organotins/GCMS - C)rganotine ((GC/MS)							
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Fributyltin	0.0455		0.0455	0.0455		— <u>-</u>	05/17/19 13:00	05/22/19 11:57	
•					J				
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Tripentyltin	97		15 - 150				05/17/19 13:00	05/22/19 11:57	
Method: WS-MS-0010 - Nonylp	henols								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
lonylphenol	1.61	U	5.02	1.61	ug/L		05/24/19 12:45	05/24/19 21:50	
Bisphenol-A	0.321	U	1.00	0.321	ug/L		05/24/19 12:45	05/24/19 21:50	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
-nonylphenol monoethoxylate (Surr)	57		47 - 138				05/24/19 12:45	05/24/19 21:50	
Method: 608 - Organochlorine	Pesticides	in Water							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Dicofol	2.08	U *	2.08	2.08	ug/L		05/15/19 08:42	05/16/19 18:56	
Mirex	0.0208	U	0.208	0.0208	ug/L		05/15/19 08:42	05/16/19 18:56	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Tetrachloro-m-xylene	63		32 - 143				05/15/19 08:42	05/16/19 18:56	
DCB Decachlorobiphenyl	50		36 - 144				05/15/19 08:42	05/16/19 18:56	
Method: 8081A - Organochlori	ne Pesticid	es (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aldrin	0.0125	U	0.104	0.0125	ug/L		05/15/19 08:42	05/16/19 18:56	
Dieldrin	0.0146	U	0.208	0.0146	ug/L		05/15/19 08:42	05/16/19 18:56	
Гохарhene	5.08	U	10.4	5.08	ug/L		05/15/19 08:42	05/16/19 18:56	
Dicofol	0.208	U *	0.208	0.208	ug/L		05/15/19 08:42	05/16/19 18:56	
Mirex	0.0208	U	0.208	0.0208	ug/L		05/15/19 08:42	05/16/19 18:56	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
DCB Decachlorobiphenyl	50		36 - 144				05/15/19 08:42	05/16/19 18:56	
Tetrachloro-m-xylene	63		32 - 143				05/15/19 08:42	05/16/19 18:56	
Method: 531.1 - Carbamate Pe	sticides (H	PLC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

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Client Sample Results

Client: Cardno, Inc Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Client Sample ID: WW-20190510-200-Day 8

Lab Sample ID: 600-185397-2

Date Collected: 05/10/19 11:30 **Matrix: Water** Date Received: 05/13/19 16:02

Method: 625 - Semivolatile Or Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
2,4,5-Trichlorophenol	0.861	U	10.0	0.861	ug/L		05/17/19 15:00	05/20/19 08:09	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Nitrobenzene-d5	78		26 - 120				05/17/19 15:00	05/20/19 08:09	
2-Fluorobiphenyl	76		22 - 120				05/17/19 15:00	05/20/19 08:09	
Terphenyl-d14	71		10 - 134					05/20/19 08:09	
Phenol-d5 (Surr)	80		10 - 120					05/20/19 08:09	
2-Fluorophenol	69		10 - 120					05/20/19 08:09	
2,4,6-Tribromophenol	97		24 - 131					05/20/19 08:09	
Method: Organotins/GCMS - 0)rganotine	(GC/MS)							
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Tributyltin	0.0455	U	0.0455	0.0455	ug/L		05/17/19 13:00	05/22/19 12:18	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Tripentyltin	95	·	15 - 150				05/17/19 13:00	05/22/19 12:18	
Method: WS-MS-0010 - Nonylj	nhanole								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Nonylphenol	1.59	U	4.98	1.59	ug/L		05/24/19 12:45	05/24/19 22:21	
Bisphenol-A	0.319	U	0.996	0.319	•		05/24/19 12:45	05/24/19 22:21	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
4-nonylphenol monoethoxylate (Surr)	60		47 - 138				05/24/19 12:45	05/24/19 22:21	
Method: 608 - Organochlorine	Pesticides	in Water							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Dicofol	2.08	U *	2.08	2.08	ug/L		05/15/19 08:42	05/16/19 19:24	
Mirex	0.0208	U	0.208	0.0208	ug/L		05/15/19 08:42	05/16/19 19:24	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
Tetrachloro-m-xylene	72		32 - 143				05/15/19 08:42	05/16/19 19:24	
DCB Decachlorobiphenyl	63		36 - 144				05/15/19 08:42	05/16/19 19:24	
Method: 8081A - Organochlor	ine Pesticid	les (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aldrin	0.0125	U	0.104	0.0125	ug/L		05/15/19 08:42	05/16/19 19:24	
Dieldrin	0.0146	U	0.208	0.0146	ug/L		05/15/19 08:42	05/16/19 19:24	
Toxaphene	5.08	U	10.4	5.08	ug/L		05/15/19 08:42	05/16/19 19:24	
Dicofol	0.208	U *	0.208	0.208	ug/L		05/15/19 08:42	05/16/19 19:24	
Mirex	0.0208	U	0.208	0.0208	ug/L		05/15/19 08:42	05/16/19 19:24	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
DCB Decachlorobiphenyl	63	-	36 - 144				05/15/19 08:42	05/16/19 19:24	
Tetrachloro-m-xylene	72		32 - 143				05/15/19 08:42	05/16/19 19:24	
Method: 531.1 - Carbamate Pe	sticides (H	PLC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
					ug/L				

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Definitions/Glossary

Client: Cardno, Inc Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Qualifiers

GC/MS Semi VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

LCS or LCSD is outside acceptance limits.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

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Client: Cardno, Inc Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

_		Percent Surrogate Recovery (Acceptance Limits)						
		NBZ	FBP	TPHL	PHL	2FP	TBP	
Lab Sample ID	Client Sample ID	(26-120)	(22-120)	(10-134)	(10-120)	(10-120)	(24-131)	
600-185397-1	WW-20190510-002-Day 8	81	76	71	80	68	96	
600-185397-2	WW-20190510-200-Day 8	78	76	71	80	69	97	
LCS 560-162753/2-A	Lab Control Sample	85	82	92	83	80	90	
LCSD 560-162753/3-A	Lab Control Sample Dup	86	85	93	85	79	88	
MB 560-162753/1-A	Method Blank	83	79	88	78	75	81	

Surrogate Legend

NBZ = Nitrobenzene-d5

FBP = 2-Fluorobiphenyl

TPHL = Terphenyl-d14

PHL = Phenol-d5 (Surr)

2FP = 2-Fluorophenol

TBP = 2,4,6-Tribromophenol

Method: Organotins/GCMS - Organotins (GC/MS)

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		TPTT	
Lab Sample ID	Client Sample ID	(15-150)	
600-185397-1	WW-20190510-002-Day 8	97	
600-185397-2	WW-20190510-200-Day 8	95	
LCS 200-143150/2-A	Lab Control Sample	85	
LCSD 200-143150/3-A	Lab Control Sample Dup	97	
MB 200-143150/1-A	Method Blank	83	
Surrogate Legend			
TPTT = Tripentyltin			

Method: WS-MS-0010 - Nonylphenols

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		4NPME	
Lab Sample ID	Client Sample ID	(47-138)	
600-185397-1	WW-20190510-002-Day 8	57	
600-185397-2	WW-20190510-200-Day 8	60	
LCS 320-296808/2-A	Lab Control Sample	100	
LCSD 320-296808/3-A	Lab Control Sample Dup	104	
MB 320-296808/1-A	Method Blank	76	
Surrogate Legend			
4NPME = 4-nonylphen	ol monoethoxylate (Surr)		

Method: 608 - Organochlorine Pesticides in Water

Matrix: Water Prep Type: Total/NA

			Pe
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(32-143)	(36-144)
600-185397-1	WW-20190510-002-Day 8	63	50
600-185397-2	WW-20190510-200-Day 8	72	63

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Surrogate Summary

Client: Cardno, Inc Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Method: 608 - Organochlorine Pesticides in Water (Continued)

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TCX1	DCBP1				
Lab Sample ID	Client Sample ID	(32-143)	(36-144)				
LCS 600-265085/2-A	Lab Control Sample	87	89				
LCS 600-265085/9-A	Lab Control Sample	94	102				
LCSD 600-265085/10-A	Lab Control Sample Dup	90	98				
LCSD 600-265085/3-A	Lab Control Sample Dup	80	90				
MB 600-265085/1-A	Method Blank	68	79				
Surrogate Legend							

DCBP = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water Prep Type: Total/NA

			Percei	nt Surrogate Recovery (Acceptance Limits)
		DCBP1	TCX1	
Lab Sample ID	Client Sample ID	(36-144)	(32-143)	
600-185397-1	WW-20190510-002-Day 8	50	63	
600-185397-2	WW-20190510-200-Day 8	63	72	
LCS 600-265085/2-A	Lab Control Sample	89	87	
LCS 600-265085/9-A	Lab Control Sample	102	94	
LCSD 600-265085/10-A	Lab Control Sample Dup	98	90	
LCSD 600-265085/3-A	Lab Control Sample Dup	90	80	
MB 600-265085/1-A	Method Blank	79	68	

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

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Client: Cardno, Inc Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-162753/1-A Client Sample ID: Method Blank Prep Type: Total/NA **Matrix: Water**

Analysis Batch: 162775

2,4,5-Trichlorophenol

MR MR Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Analyte

10.0

0.861 ug/L

MB MB Qualifier Dil Fac Surrogate %Recovery Limits Prepared Analyzed Nitrobenzene-d5 83 05/17/19 15:00 05/20/19 06:14 26 - 120 79 2-Fluorobiphenyl 22 - 120 05/17/19 15:00 05/20/19 06:14 Terphenyl-d14 88 10 - 134 05/17/19 15:00 05/20/19 06:14 Phenol-d5 (Surr) 78 10 - 120 05/17/19 15:00 05/20/19 06:14 75 2-Fluorophenol 10 - 120 05/17/19 15:00 05/20/19 06:14

24 - 131

Lab Sample ID: LCS 560-162753/2-A **Client Sample ID: Lab Control Sample**

Matrix: Water

2,4,6-Tribromophenol

Analysis Batch: 162775 Spike LCS LCS

0.861 U

81

Prep Type: Total/NA **Prep Batch: 162753** %Rec.

05/17/19 15:00 05/20/19 06:14

05/17/19 15:00 05/20/19 06:14

Added Limits Analyte Result Qualifier Unit %Rec 200 50 - 120 2,4,5-Trichlorophenol 167.1 ug/L 84

LCS LCS Surrogate %Recovery Qualifier Limits Nitrobenzene-d5 85 26 - 120 2-Fluorobiphenyl 82 22 - 120 Terphenyl-d14 92 10 - 134 Phenol-d5 (Surr) 83 10 - 120 2-Fluorophenol 80 10 - 120 2,4,6-Tribromophenol 90 24 - 131

Lab Sample ID: LCSD 560-162753/3-A **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 162775 Prep Batch: 162753 LCSD LCSD Spike **RPD** %Rec. Added Analyte Result Qualifier Unit %Rec Limits **RPD** Limit 200 2,4,5-Trichlorophenol 83 50 - 120 40.0 165.1 ug/L

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5	86		26 - 120
2-Fluorobiphenyl	85		22 - 120
Terphenyl-d14	93		10 - 134
Phenol-d5 (Surr)	85		10 - 120
2-Fluorophenol	79		10 - 120
2,4,6-Tribromophenol	88		24 - 131

Method: Organotins/GCMS - Organotins (GC/MS)

Lab Sample ID: MB 200-143150/1-A **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 143256

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.0450 U Tributyltin 0.0450 0.0450 ug/L 05/17/19 13:00 05/22/19 11:14

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Prep Batch: 143150

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Prep Batch: 162753

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Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Client: Cardno, Inc

Tributyltin

Method: Organotins/GCMS - Organotins (GC/MS) (Continued)

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tripentyltin	83		15 - 150	05/17/19 13:00	05/22/19 11:14	1

Lab Sample ID: LCS 200-143150/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 143256 Prep Batch: 143150** LCS LCS Spike %Rec. Added Limits Analyte Result Qualifier Unit D %Rec

0.3636

ua/L

82

30 - 150

Prep Type: Total/NA

0.445

LCS LCS Surrogate %Recovery Qualifier Limits Tripentyltin 15 - 150 85

Lab Sample ID: LCSD 200-143150/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 143256 Prep Batch: 143150 Spike LCSD LCSD %Rec. **RPD** Added Analyte Result Qualifier Limits **RPD** Limit Unit D %Rec Tributyltin 0.445 0.3957 ug/L 89 30 - 150 8 30

LCSD LCSD Surrogate %Recovery Qualifier Limits 15 - 150 Tripentyltin 97

Method: WS-MS-0010 - Nonylphenols

Lab Sample ID: MB 320-296808/1-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA **Prep Batch: 296808**

Analysis Batch: 296960

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Nonylphenol 1.60 U 5.00 1.60 ug/L 05/24/19 12:45 05/24/19 19:45 Bisphenol-A 0.320 U 1.00 0.320 ug/L 05/24/19 12:45 05/24/19 19:45

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 05/24/19 12:45 05/24/19 19:45 4-nonylphenol monoethoxylate (Surr) 76 47 - 138

Lab Sample ID: LCS 320-296808/2-A

Matrix: Water Prep Type: Total/NA **Analysis Batch: 296960 Prep Batch: 296808** Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Nonylphenol 24.0 21.17 ug/L 88 35 - 133 ug/L Bisphenol-A 4.80 4.145 86 42 - 120

LCS LCS Limits Surrogate %Recovery Qualifier 100 47 - 138 4-nonylphenol monoethoxylate (Surr)

Eurofins TestAmerica, Houston

5/28/2019

Client Sample ID: Lab Control Sample

Client: Cardno, Inc Job ID: 600-185397-1

LCSD LCSD

21.11

3.228

Result Qualifier

Unit

ug/L

ug/L

Spike

Added

24.0

4.80

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Method: WS-MS-0010 - Nonylphenols (Continued)

Lab Sample ID: LCSD 320-296808/3-A

Matrix: Water

Analysis Batch: 296960

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

67

Prep Batch: 296808 RPD %Rec. %Rec Limits RPD Limit 88 35 - 133 0 35

Prep Type: Total/NA

Prep Batch: 265085

25

35

42 - 120

Client Sample ID: Lab Control Sample

LCSD LCSD

Surrogate %Recovery Qualifier Limits 47 - 138 4-nonylphenol monoethoxylate 104

(Surr)

Analyte

Nonylphenol

Bisphenol-A

Method: 608 - Organochlorine Pesticides in Water

Lab Sample ID: MB 600-265085/1-A **Client Sample ID: Method Blank**

Matrix: Water Analysis Batch: 265203

MB MB

Result Qualifier RL **MDL** Unit D Analyte **Prepared** Analyzed Dil Fac Dicofol 2.00 U 2.00 2.00 ug/L 05/15/19 08:41 05/16/19 16:37

Mirex 0.0200 U 0.200 0.0200 ug/L 05/15/19 08:41 05/16/19 16:37

MB MB

Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed Tetrachloro-m-xylene 68 32 - 143 05/15/19 08:41 05/16/19 16:37 DCB Decachlorobiphenyl 79 36 - 144 05/15/19 08:41 05/16/19 16:37

Lab Sample ID: LCS 600-265085/2-A

Matrix: Water Prep Type: Total/NA **Analysis Batch: 265203 Prep Batch: 265085** LCS LCS Spike %Rec.

Added Analyte Result Qualifier Unit %Rec Limits Aldrin 1.00 1.195 ug/L 119 42 - 122 Dieldrin 1.00 1.306 ug/L 131 36 - 146

LCS LCS

Surrogate %Recovery Qualifier Limits Tetrachloro-m-xylene 32 - 143 87 DCB Decachlorobiphenyl 89 36 - 144

Lab Sample ID: LCS 600-265085/9-A

Matrix: Water

Analysis Batch: 265203

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 265085

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits 4.00 6.908 Dicofol ug/L 173 70 - 130 Mirex 4.00 3.250 ug/L 81

LCS LCS

Surrogate %Recovery Qualifier Limits Tetrachloro-m-xylene 94 32 - 143 DCB Decachlorobiphenyl 102 36 - 144

5/28/2019

Client: Cardno, Inc Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Method: 608 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCSD 600-265085/10-A

Matrix: Water

Analysis Batch: 265203							Prep Ba	itch: 26	35085
-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Dicofol	4.00	7.007	*	ug/L		175	70 - 130	1	20
Mirex	4.00	3.324		ug/L		83		2	

Limits

LCSD LCSD Surrogate %Recovery Qualifier

Tetrachloro-m-xylene 32 - 143 90 DCB Decachlorobiphenyl 98 36 - 144

Lab Sample ID: LCSD 600-265085/3-A

Matrix: Water

Analysis Batch: 265203					Prep Batch: 26508					
-	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Aldrin	1.00	1.211		ug/L		121	42 - 122	1	20	
Dieldrin	1 00	1 339		ua/l		134	36 - 146	2	20	

LCSD LCSD

Surrogate	%Recovery Qua	lifier Limits
Tetrachloro-m-xylene	80	32 - 143
DCB Decachlorobiphenyl	90	36 - 144

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 600-265089	5/1-A						Client Samp	ole ID: Method	d Blank
Matrix: Water Prep Type						Prep Type: T	otal/NA		
Analysis Batch: 265202								Prep Batch:	265085
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	KL	MDL	Unit	D	Prepared	Anaiyzed	DII Fac
Aldrin	0.0120	U	0.100	0.0120	ug/L		05/15/19 08:41	05/16/19 16:37	1
Dieldrin	0.0140	U	0.200	0.0140	ug/L		05/15/19 08:41	05/16/19 16:37	1
Toxaphene	4.88	U	10.0	4.88	ug/L		05/15/19 08:41	05/16/19 16:37	1
Dicofol	0.200	U	0.200	0.200	ug/L		05/15/19 08:41	05/16/19 16:37	1
Mirex	0.0200	U	0.200	0.0200	ug/L		05/15/19 08:41	05/16/19 16:37	1

	IVIB	IVIB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		36 - 144	05/15/19 08:41	05/16/19 16:37	1
Tetrachloro-m-xylene	68		32 - 143	05/15/19 08:41	05/16/19 16:37	1

Lab Sample ID: LCS 600-265085/2-A

Matrix: Water

Analysis Batch: 265202

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 265085

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Aldrin	1.00	1.195		ug/L	_	119	66 - 150
Dieldrin	1.00	1.306	1	ug/L		131	63 - 150

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	89		36 - 144
Tetrachloro-m-xylene	87		32 - 143

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Job ID: 600-185397-1 Client: Cardno, Inc

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 600-265085/9-A

Matrix: Water

Analysis Batch: 265202							Prep Ba	atch: 26508
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Dicofol	 4.00	5.855	*	ug/L		146	70 - 130	
Mirex	4.00	3.250		ug/L		81	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	102		36 - 144
Tetrachloro-m-xylene	94		32 - 143

Lab Sample ID: LCSD 600-265085/10-A

Matrix:

Analysis Batch: 265202

Sample ID: LCSD 600-265085/10-A	Client Sample ID: Lab Control Sample Dup
x: Water	Prep Type: Total/NA
rsis Batch: 265202	Pren Batch: 265085

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Dicofol	4.00	5.934	*	ug/L		148	70 - 130	1	20
Mirex	4.00	3.324		ug/L		83	70 - 130	2	20

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	98		36 - 144
Tetrachloro-m-xylene	90		32 - 143

Lab Sample ID: LCSD 600-265085/3-A

M

Dieldrin

Matrix: Water							Prep Ty	pe: Tot	al/NA
Analysis Batch: 265202							Prep Ba	atch: 20	55085
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aldrin	1.00	1.211		ug/L	_	121	66 - 150	1	20

1.339

ug/L

1.00

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	90		36 - 144
Tetrachloro-m-xylene	80		32 - 143

Method: 531.1 - Carbamate Pesticides (HPLC)

Lab Sample ID: MB 680-571330/4

Lab Sample ID: MB 680-571330/4	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 571330	
MB MB	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	0.250	U	2.50	0.250	ug/L			05/22/19 12:55	1

Lab Sample ID: LCS 680-571330/5

Matrix: Water

Analysis Batch: 571330								
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Carbaryl	10.0	9.260		ug/L		93	80 - 120	

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

134 63 - 150

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

QC Sample Results

Client: Cardno, Inc Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Method: 531.1 - Carbamate Pesticides (HPLC) (Continued)

Lab Sample ID: LCSD 680-571330/6 **Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 571330

		Spike	LCSD	LCSD				%Rec.		RPD
Analyte	A	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Carbaryl		10.0	8.656		ug/L		87	80 - 120	7	20

QC Association Summary

Client: Cardno, Inc Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

GC/MS Semi VOA

Prep Batch: 143150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Pro	p Batch
600-185397-1	WW-20190510-002-Day 8	Total/NA	Water	3510C	
600-185397-2	WW-20190510-200-Day 8	Total/NA	Water	3510C	
MB 200-143150/1-A	Method Blank	Total/NA	Water	3510C	
LCS 200-143150/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 200-143150/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 143256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-185397-1	WW-20190510-002-Day 8	Total/NA	Water	Organotins/GCM S	143150
600-185397-2	WW-20190510-200-Day 8	Total/NA	Water	Organotins/GCM S	143150
MB 200-143150/1-A	Method Blank	Total/NA	Water	Organotins/GCM S	143150
LCS 200-143150/2-A	Lab Control Sample	Total/NA	Water	Organotins/GCM S	143150
LCSD 200-143150/3-A	Lab Control Sample Dup	Total/NA	Water	Organotins/GCM S	143150

Prep Batch: 162753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Bat
600-185397-1	WW-20190510-002-Day 8	Total/NA	Water	CWA_Prep_CLL E
600-185397-2	WW-20190510-200-Day 8	Total/NA	Water	CWA_Prep_CLL E
MB 560-162753/1-A	Method Blank	Total/NA	Water	CWA_Prep_CLL E
LCS 560-162753/2-A	Lab Control Sample	Total/NA	Water	CWA_Prep_CLL E
LCSD 560-162753/3-A	Lab Control Sample Dup	Total/NA	Water	CWA_Prep_CLL E

Analysis Batch: 162775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-185397-1	WW-20190510-002-Day 8	Total/NA	Water	625	162753
600-185397-2	WW-20190510-200-Day 8	Total/NA	Water	625	162753
MB 560-162753/1-A	Method Blank	Total/NA	Water	625	162753
LCS 560-162753/2-A	Lab Control Sample	Total/NA	Water	625	162753
LCSD 560-162753/3-A	Lab Control Sample Dup	Total/NA	Water	625	162753

Prep Batch: 296808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-185397-1	WW-20190510-002-Day 8	Total/NA	Water	3510C	
600-185397-2	WW-20190510-200-Day 8	Total/NA	Water	3510C	
MB 320-296808/1-A	Method Blank	Total/NA	Water	3510C	
LCS 320-296808/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 320-296808/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 296960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-185397-1	WW-20190510-002-Day 8	Total/NA	Water	WS-MS-0010	296808
600-185397-2	WW-20190510-200-Day 8	Total/NA	Water	WS-MS-0010	296808
MB 320-296808/1-A	Method Blank	Total/NA	Water	WS-MS-0010	296808
LCS 320-296808/2-A	Lab Control Sample	Total/NA	Water	WS-MS-0010	296808

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QC Association Summary

Client: Cardno, Inc Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

GC/MS Semi VOA (Continued)

Analysis Batch: 296960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 320-296808/3-A	Lab Control Sample Dup	Total/NA	Water	WS-MS-0010	296808

GC Semi VOA

Prep Batch: 265085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-185397-1	WW-20190510-002-Day 8	Total/NA	Water	608	<u> </u>
600-185397-2	WW-20190510-200-Day 8	Total/NA	Water	608	
MB 600-265085/1-A	Method Blank	Total/NA	Water	608	
LCS 600-265085/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 600-265085/9-A	Lab Control Sample	Total/NA	Water	608	
LCSD 600-265085/10-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 600-265085/3-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 265202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-185397-1	WW-20190510-002-Day 8	Total/NA	Water	8081A	265085
600-185397-2	WW-20190510-200-Day 8	Total/NA	Water	8081A	265085
MB 600-265085/1-A	Method Blank	Total/NA	Water	8081A	265085
LCS 600-265085/2-A	Lab Control Sample	Total/NA	Water	8081A	265085
LCS 600-265085/9-A	Lab Control Sample	Total/NA	Water	8081A	265085
LCSD 600-265085/10-A	Lab Control Sample Dup	Total/NA	Water	8081A	265085
LCSD 600-265085/3-A	Lab Control Sample Dup	Total/NA	Water	8081A	265085

Analysis Batch: 265203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-185397-1	WW-20190510-002-Day 8	Total/NA	Water	608	265085
600-185397-2	WW-20190510-200-Day 8	Total/NA	Water	608	265085
MB 600-265085/1-A	Method Blank	Total/NA	Water	608	265085
LCS 600-265085/2-A	Lab Control Sample	Total/NA	Water	608	265085
LCS 600-265085/9-A	Lab Control Sample	Total/NA	Water	608	265085
LCSD 600-265085/10-A	Lab Control Sample Dup	Total/NA	Water	608	265085
LCSD 600-265085/3-A	Lab Control Sample Dup	Total/NA	Water	608	265085

HPLC/IC

Analysis Batch: 571330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-185397-1	WW-20190510-002-Day 8	Total/NA	Water	531.1	
600-185397-2	WW-20190510-200-Day 8	Total/NA	Water	531.1	
MB 680-571330/4	Method Blank	Total/NA	Water	531.1	
LCS 680-571330/5	Lab Control Sample	Total/NA	Water	531.1	
LCSD 680-571330/6	Lab Control Sample Dup	Total/NA	Water	531.1	

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Lab Chronicle

Job ID: 600-185397-1 Client: Cardno, Inc

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Client Sample ID: WW-20190510-002-Day 8

Lab Sample ID: 600-185397-1 **Matrix: Water**

Date Collected: 05/10/19 11:30 Date Received: 05/13/19 16:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	CWA_Prep_CLLE			250 mL	1 mL	162753	05/17/19 15:00	OV56	TAL CC
Total/NA	Analysis	625		1			162775	05/20/19 07:41	GEF	TAL CC
Total/NA	Prep	3510C			990 mL	5 mL	143150	05/17/19 13:00	CSB	TAL BUR
Total/NA	Analysis	Organotins/GCMS		1			143256	05/22/19 11:57	A1B	TAL BUR
Total/NA	Prep	3510C			996.7 mL	0.5 mL	296808	05/24/19 12:45	TWL	TAL SAC
Total/NA	Analysis	WS-MS-0010		1			296960	05/24/19 21:50	M1A	TAL SAC
Total/NA	Prep	608			240 mL	5.0 mL	265085	05/15/19 08:42	LER	TAL HOU
Total/NA	Analysis	608		1			265203	05/16/19 18:56	JAL	TAL HOU
Total/NA	Prep	608			240 mL	5.0 mL	265085	05/15/19 08:42	LER	TAL HOU
Total/NA	Analysis	8081A		1			265202	05/16/19 18:56	JAL	TAL HOU
Total/NA	Analysis	531.1		1	1 mL	1 mL	571330	05/23/19 00:56	UI	TAL SAV

Client Sample ID: WW-20190510-200-Day 8

Date Collected: 05/10/19 11:30 Date Received: 05/13/19 16:02

Lab Sample ID: 600-185397-2

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	CWA_Prep_CLLE			250 mL	1 mL	162753	05/17/19 15:00	OV56	TAL CC
Total/NA	Analysis	625		1			162775	05/20/19 08:09	GEF	TAL CC
Total/NA	Prep	3510C			990 mL	5 mL	143150	05/17/19 13:00	CSB	TAL BU
Total/NA	Analysis	Organotins/GCMS		1			143256	05/22/19 12:18	A1B	TAL BU
Total/NA	Prep	3510C			1003.9 mL	0.5 mL	296808	05/24/19 12:45	TWL	TAL SA
Total/NA	Analysis	WS-MS-0010		1			296960	05/24/19 22:21	M1A	TAL SA
Total/NA	Prep	608			240 mL	5.0 mL	265085	05/15/19 08:42	LER	TAL HC
Total/NA	Analysis	608		1			265203	05/16/19 19:24	JAL	TAL HC
Total/NA	Prep	608			240 mL	5.0 mL	265085	05/15/19 08:42	LER	TAL HC
Total/NA	Analysis	8081A		1			265202	05/16/19 19:24	JAL	TAL HC
Total/NA	Analysis	531.1		1	1 mL	1 mL	571330	05/23/19 01:26	UI	TAL SA

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL CC = Eurofins TestAmerica, Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Cardno, Inc Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Laboratory: Eurofins TestAmerica, Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program		EPA Region	Identification Number	Expiration Date
Texas	NELAP		6	T104704223-18-23	10-31-19
The following analytes the agency does not o	•	rt, but the laboratory	is not certified by the	e governing authority. This	list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyt	e	
608	608	Water	Dicofo	I	
	608	Water	Mirex		
608					
608 8081A	608	Water	Dicofo	I	

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	DoD		L2336	02-25-20
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-20
Florida	NELAP	4	E87467	06-30-19 *
Minnesota	NELAP	5	050-999-436	12-31-19
New Hampshire	NELAP	1	2006	12-18-19
New Jersey	NELAP	2	VT972	06-30-19 *
New York	NELAP	2	10391	04-01-20
Pennsylvania	NELAP	3	68-00489	04-30-20
Rhode Island	State Program	1	LAO00298	12-30-19
US Fish & Wildlife	Federal		LE-058448-0	07-31-19
USDA	Federal		P330-11-00093	07-24-20
Vermont	State Program	1	VT-4000	12-31-19
Virginia	NELAP	3	460209	12-14-19

Laboratory: Eurofins TestAmerica, Corpus Christi

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority Oklahoma	Program State Program	EPA Region 6	Identification Number	Expiration Date 08-31-19
Texas	NELAP	6	T104704210-19-23	03-31-20
USDA	Federal		P330-18-00314	10-31-21

Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program		EPA Region	Identification Numl	per Expiration Date
Texas	NELAP		6	T104704399	05-31-19
The following analyte	is are included in this reno	ort but the laboratory	is not certified by the	e governing authority	This list may include anal
the agency does not	offer certification.	,	,	,	This list may include anal
,	•	ort, but the laboratory Matrix	is not certified by the Analyt	,	This list may include anal
the agency does not	offer certification.	,	,	re	This list may include anal

Eurofins TestAmerica, Houston

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^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Cardno, Inc Job ID: 600-185397-1

Project/Site: ITC WW-20190510-002-Day 8 05-10-19

Laboratory: Eurofins TestAmerica, Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program		EPA Region	Identification Number	Expiration Date
Гехаs	NELAP		6	T104704185-16-9	11-30-19
The following analyte the agency does not	•	t, but the laboratory i	s not certified by the	e governing authority. This	list may include analyte
,	•	t, but the laboratory i Matrix	s not certified by the Analyt		list may include analyte

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6310 Rothway Street Houston, TX 77040

Chain of Custody Record



Phone (713) 690-4444 Fax (713) 690-5646 Sampler: C.P.119, V. Phipps Carrier Tracking No(s): Joiner, Dean A Client Information 600-68340-18674.1 Client Contact: Ms. Cheryl Hennessy dean.joiner@testamericainc.com Page 1 of 1 Company **Analysis Requested** Cardno, Inc. Address: Due Date Requested: Preservation Codes: 970 Wedgewood Drive A-HCL M - Hexane TAT Requested (days): B - NaOH N - None Crystal Lake TAT Requested (days): C - Zn Acetate O - AsNaO2 State, Zip: D - Nitric Acid P - Na204S E - NaHSO4 Q - Na2SO3 IL, 60014 F - MeOH R - Na2S2O3 Phone: S - H2SO4 G - Amchlor Purchase Order Requested Sample (Yes or No. H - Ascorbic Acid T - TSP Dodecahydrate U - Acetone 1-Ice cheryl.randle@cardno.com J - DI Water V - MCAA MS/MSD (Yes or K-EDTA W - pH 4-5 Project Name **Custom List** L-EDA Z - other (specify) ITC Deer Park Water Samples 60010840 Analytical Grp: Water Samples jo. Total Number 8270C - (MOD) Matrix Sample (w=water, Type S=solid, O=waste/oil, (C=comp, Sample Sample Identification Sample Date Time G=grab) BT=Tissue, A=Air Special Instructions/Note: Preservation Code: N VR 5/10/19 Water WW-20190510-002. Day8 5/10/19 Water 10 WW-20190510-200-Day 8 9 Water Water 9 Water 9 Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Skin Irritant Poison B Unknown Archive For Non-Hazard Flammable Disposal By Lab Return To Client Months Deliverable Requested: I, II, III, IV, Other (specify) Special Instructions/QC Requirements Empty Kit Relinquished by Date Time Method of Shipment elinquished by Company Custody Seals Intact: Custody Seal No. Cooler Temperature(s) °C and Other Remarks: Δ Yes Δ No Ver: 01/16/2019

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TestAmerica Houston Sample Receipt Ch	185397	10317	Merica NVIRONMENTAL TESTING
JOB NUMBER: UNPACKED BY: Custody Seal Present: YES NO	CLIENT: CARRIER/DRIVER: Number of Coolers Rec	57379 Cadn P2 Decived: 2	16:02
Cooler ID Blank Trip Blank Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N CF = correction factor	Observed Temp (°C) 46 5.2	Therm Them CF	Corrected Temp
Samples received on ice? YES NO LABORATORY PRESERVATION OF SAMPLES I Base samples are>pH 12: YES NO pH paper Lot # YES YES YES VOA headspace acceptable (5-6mm): YES	REQUIRED: NO Acid preserved are <ph< td=""><td>View and</td><td>] NO</td></ph<>	View and] NO
			YES NO

	ard conditions of sample acceptability upon	
COMMENTS:		
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	5191	
	7	

HS-SA-WI-013

Rev. 3; 07/01/2014



eurofins

Environment Testing TestAmerica

6310 Rothway Street **Chain of Custody Record** Houston, TX 77040 Phone (713) 690-4444 Fax (713) 690-5646

							_										_					
Client Information (Sub Contract Lab)	Sampler:			Lab Pi Joine		an A													C No: 0-39525.1	1		
lient Contact:	Phone:			E-Mail:	:							State	of Orig	jin:				Pag				
Shipping/Receiving ompany:						r@tes						Texa	as					_	ge 1 of 1			
estAmerica Laboratories, Inc.						ditations AP - T		red (Se	e note):								Job	#:)-185397:	1		
ddress:	Due Date Requeste	ed;			,		-											_	servation		s:	
0 Community Drive, Suite 11,	5/20/2019		<u> </u>						Ana	lysis	Rec	ues	ted						HCL		M - Hexane	
ity: South Burlington	TAT Requested (da	ıys):									1	1						В-	NaOH		N - None	
tate, Zip:				ľ									ŀ					D -	Zn Acetate Nitric Acid		O - AsNaO2 P - Na2O4S	
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hone: :02-660-1990(Tel) 802-660-1919(Fax)	PO #:			ł	3.4	Only							ŀ					G-	Amchlor		S - H2SO4	
mail:	WO #:			\dashv	8	陌							l					H -	Ascorbic A		T - TSP Dodeo U - Acetone	ahydrate
				ŀ	es or No	(a								- 1			gn gn	J -	DI Water		V - MCAA	
roject Name: FC WW-20190510-002-Day 8 05-10-19	Project #:				<u>(</u>	. ≥							- 1				Faine		EDTA EDA		W - pH 4-5 Z - other (spec	cify)
ite:	60010840 ssow#:					5100											confa	Oth	0 F1			
·· ·	000****				Sample (Y	GCMS/3510C (MOD) TBT					1						Ö		л.			
				latrix	þ	29,												_				
			Campic	N≕water,	ile.	i i								-			Total Number					
		Sample	1,2,200	S=solid, waste/oil,	<u>.</u>	Organotins											Z					
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) _{BT=Ti}		2	o.g											Tot		Speci	al Ins	tructions/N	lote:
		$\sim\!$	Preservation	Code:	$\times\!\!\!\!/\!\!\!\!/$	$\langle - \rangle$				9 6	•		. 3	* ;		£ 13	\mathbb{X}			ج		
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lote: Since laboratory accreditations are subject to change, TestAmerica Laborat	ories, Inc. places the	ownership of n	nethod, analyte & ac	creditation	compl	liance u	pon ou	ut subco	ontract	laborato	ries. T	his sa	mple s	hipme	ent is fo	rwarde	d unde	er cha	n-of-custor	dy. If th	ne laboratory do	oes not
urrently maintain accreditation in the State of Origin listed above for analysis/test aboratories, Inc. attention immediately. If all requested accreditations are curren	s/matrix being analyz t to date, return the si	ed, the sample igned Chain of	es must be shipped in Custody attesting to	back to the said comp	l estAr olicano	merica e to Te	laborat stAmer	tory or o	other in ooratori	structiones, Inc.	ns Will I	be pro	vided.	Any	changes	to acc	reditat	tion st	atus should	be bro	ought to TestAn	nerica
Possible Hazard Identification					İs	ample	Dist	oosal	(A fe	e may	be a	sses	sed i	f sai	moles	are r	etain	red l	onger th	an 1	month)	
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empty Kit Relinquis k9 d by:	-	Data		···	Time								Matha	d of C	Shipmer	4.						
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telinquished by: 170ULC	510	160	O Com	pany 17	<u> </u>	Rece	eived b	iyli	N)	Moh	n				Date/Ti		19)	1020	ı	Company	51
telinquished by:	Date/Time:	•	Com	pany		Rece	eived b	y	O						Date/Ti	ne:					Company	
telinquished by:	Date/Time:		Com	pany		Rece	eived b	y:							Date/Ti	me:					Company	
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Ver: 01/16/2019









SHIP DATE: 16MAY19 ACTWGT: 20.00 LB MAN CAD: 0758523/CAFE3211

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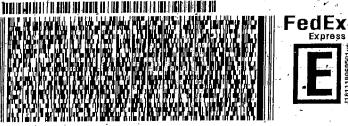
SHIPPING/RECEIVING TESTAMERICA LABORATORIES, INC. 30 COMMUNITY DRIVE SUITE 11

1 of 2 TRK# 4840 2906 1472 17 MAY 3:00P

05403



TËSTAMERICA LÆGGRATORIES, INC. 30 COMMUNITY DRIVE SULTE 11



2 of 2 MPS# 4840 2906 1483

17 MAY 3:00P STANDARD OVERNIGHT

Mstr# 4840 2906 1472

0201



6310 Rothway Street Houston, TX 77040 Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record



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Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler			Join	er, De	ean A	4				Can	rier Track	ing No(s)			COC No: 600-39533.1	
Client Information (Sub Contract Lab)	Phone			E-Mai	il:						P257976	e of Origi	n:			Page	
Shipping/Receiving				dear		_	TABLE VALUE OF	ericaino lired (Se	SECTION OF SECTION		Tex	kas				Page 1 of 1	
Company TestAmerica Laboratories, Inc.							Texas		e note)							600-185397-1	
Address: 880 Riverside Parkway,	Due Date Requeste 5/20/2019	ed:							Analy	sis R	eque	sted				Preservation Co	
City:	TAT Requested (da	sys):							T		T	III				A - HCL B - NaOH	M - Hexane N - None
West Sacramento						и.										C - Zn Acetate D - Nitric Acid	O - AsNaO2
State, Zip. CA, 95605						1.2	100									E - NaHSO4	P - Na2O4S Q - Na2SO3
Phone:	PO#:					100	3					1 1				F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4
916-373-5600(Tel) 916-372-1059(Fax)					9	200	2									H - Ascorbic Acid	T - TSP Dodecahydrate
Email	WO#:				N IO	(ON	Town I								20	I - Ice J - DI Water	U - Acetone V - MCAA
Project Name	Project #:				Yes	OF NO	6								container	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
ITC WW-20190510-002-Day 8 05-10-19	60010840				ole (286	4								uta		
Site:	ssow#:				Samp	mole/3540C 28F	3								4		
		Sample	Type (C=comp, c	Matrix (W=water, S=solid, D=waste/oil,	d Filt	vinha	Creation and American								Total Number		
Sample Identification - Client ID (Lab ID)	Sample Date	Time				D ON			-		_				۴	Special Ir	nstructions/Note:
	_><	$\geq \leq$	Preservation	n Code:	\mathbb{Z}	_									X		
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Note: Since laboratory accreditations are subject to change, TestAmerica Lacurrently maintain accreditation in the State of Origin listed above for analyst Laboratories, Inc. attention immediately. If all requested accreditations are	is/tests/matrix being analyze	ed, the sample	s must be shipped	back to the	TestA	meric	a laboral	tary or oth	ner instru	ctions w	This s	ample shi	pment is ny chang	forwarded es to accr	under	r chain-of-custody. If on status should be b	the laboratory does not rought to TestAmerica
Possible Hazard Identification					S	amp	le Disp	oosal (A fee r	nay be	asse	ssed if	sample	s are re	etain	ed longer than 1	month)
Unconfirmed								To Cli				osal By	Lab	ш	Arch	nive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Delivera	able Rank: 2	2		S	pecia	al Instri	uctions	QC Re	quiren	nents:						
Empty Kit Relinquished by:		Date:	- Table		Time	2:						Method	of Shipm	ent			
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Relinquished by	Date/Time:		Con	mpany		Re	ceived b	y:					Date/	Time:			Company
Custody Seals Intact: Custody Seal No.: 7322	35					Co	oler Ten	perature	(s) °C an	d Other	Remark	5.		10	939	U	











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Ver: 01/16/2019

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6310 Rothway Street Houston, TX 77040 Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record



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Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:			Lab F Join	PM: ner, De	an A					Car	rier Tra	cking N	o(s):			COC No: 600-39527.1
Client Contact:	Phone:			E-Ma		rete	ctamor	ricaine (oom			te of Or	igin:				Page:
Shipping/Receiving Company:				dea				ricainc.ored (See			Te	xas				_	Page 1 of 1 Job#:
TestAmerica Laboratories, Inc.							Texas										600-185397-1
Address: 1733 N. Padre Island Drive,	Due Date Requeste 5/20/2019	ed:						A	nalys	sis R	eque	sted					Preservation Codes:
City: Corpus Christi	TAT Requested (da	ays):							T								A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2
State, Zip:	1					8	1 1		1 1								D - Nitric Acid P - Na2O4S
TX, 78408	PO #:				- 1							1					E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3
Phone: 361-289-2673(Tel) 361-289-2471(Fax)	PO #.				9	st	11										G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate
Email:	WO #:				or No	Custom List										90	I - Ice U - Acetone J - DI Water V - MCAA
Project Name: ITC WW-20190510-002-Day 8 05-10-19	Project #: 60010840				ered Sample (Yes or											tainers	K - EDTA W - pH 4-5 L - EDA Z - other (specify)
Site:	SSOW#:				aldu &	MOD										cont	Other:
					Sar	2										of	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Type (w	atrix =water. rsolid, raste/oil,	Field Filtered	8270C/3520C_LVI (MOD)										Total Number	Special Instructions/Note:
Sample Identification - Cheft ID (Lab ID)	Sumple Bute		Preservation (XX	1										Ż	opecial matractions/Note.
WW-20190510-002-Day 8 (600-185397-1)	5/10/19	11:30 Central	W	/ater	ÍΥ	X		3233 1000						-		2	
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Note: Since laboratory accreditations are subject to change, TestAmerica Laborat currently maintain accreditation in the State of Origin listed above for analysis/test Laboratories, Inc. attention immediately. If all requested accreditations are currer	s/matrix being analyz	ed, the sample	s must be shipped ba	ack to the	e TestAr	merica	laborato	ry or othe	er instru	ctions w	. This s	sample ovided.	shipme Any ch	nt is forw nanges to	varded u o accred	under	chain-of-custody. If the laboratory does not on status should be brought to TestAmerica
Possible Hazard Identification					Sa	ampl	e Disp	osal (A	4 fee n	nay b	e asse	ssed	if san	nples a	re ret	taine	ed longer than 1 month)
Unconfirmed							Return	To Clie	nt		Disp	osal E	By Lab			Arch	rive For Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Delivera	able Rank: 2	2		Sp	pecia	I Instru	ctions/0	QC Re	quiren	nents:						
Empty Kit Relinquished by:		Date:			Time	-	_					Meth		hipment:			
Relinquished by:	Datedime	110	Comp	any	5	Rec	eined by	le	ec	5	2			Sate/Time	e: ()	-(9:30 Company
Relinquished by:	Date/Time:		Compa	any		Red	eived by:							Date/Time	e:		Company
Relinquished by:	Date/Time:		Comp	any		Red	eived by:	:						Date/Time	e:		Company
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Coc	ler Temp	perature(s	s) °C and	d Other	Remark	(S: [2-(0	•	0	1.61-0.5cp
																	Ver: 01/16/2019













6310 Rothway Street Houston, TX 77040

Chain of Custody Record



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Environment Testing TestAmerica

Phone (713) 690-4444 Fax (713) 690-5646																
Client Information (Sub Contract Lab)	Sampler			1000	PM iner, D	Dean .	Α				Carrier Tra	cking No(s)			COC No: 600-39534.1	
Client Contact Shipping/Receiving	Phone:			E-N de		ner@	testame	ricainc.	com		State of Or Texas	gin:			Page Page 1 of 1	
Company: TestAmerica Laboratories, Inc.							ons Requ - Texas	ired (See	note):					- 1	lob# 600-185397-1	
Address	Due Date Requeste	rd;													Preservation Code	es:
5102 LaRoche Avenue, Gity	5/20/2019				-				Analys	is Rec	uested				A - HCL	M - Hexane
Savannah	TAT Requested (da	lys).												200	B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: GA, 31404															D - Nitric Acid E - NaHSO4 F - MeOH	P - Na2O4S Q - Na2SO3 R - Na2S2O3
Phone. 912-354-7858(Tel) 912-352-0165(Fax)	PO#				6									35	G - Amchior H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
Email:	WO #.				or No	(0)									I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: ITC WW-20190510-002-Day 8 05-10-19	Project #: 60010840				(Yes	IS/MSD (Yes or No)		1							K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site	SSOW#				Sample	D CY								fcon	Other:	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W-water, S-solid, O-waste/oii, BT-Tissue, A-/	eld Filte	Perform MS/MS	531.1/ Carbaryl							Total Number o	Special In	structions/Note:
Complete and the Complete Comp		>		tion Code:	X	X	00000		a made	7	17 104			X	N. House	
WW-20190510-002-Day 8 (600-185397-1)	5/10/19	11:30		Water	T		×							2		
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Possible Hazard Identification						Sam	1			_		A CONTRACTOR OF THE PARTY OF TH	s are reta	aine	d longer than 1	month)
Unconfirmed						_		To Clie			Disposal E	By Lab	_ L	Archi	ive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank	2			Spec	cial Instr	uctions/	QC Req	uireme	nts:					
Empty Kit Relinquished by:		Date:			Tin	ne:					Meth	od of Shipmi	ent			
Relinquished by: ###################################	Date/Tung U	lla	00	Company	A		Received b		To	Un			V-17-1	17	0905	(PS)V
Relinquished by:	Date/Time!			Company V		F	Received b	y.	/			Date/	Time:			Company
Relinquished by	Date/Time:			Company		F	Received b	у				Date/	Time			Company
Custody Seals Intact: Custody Seal No.:						0	Cooler Ter	nperature	(s) °C and	Other Re	emarks:		5.	:4	15.4	

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Environment Testing TestAmerica



600-185397 Field Sheet

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	Job:	
Tracking # <u>4840 2906 1391</u> e this form to record Sample Custody Seal, Cooler e in the job folder with the COC.	SO / PO FO / 2-Day / Ground / UPS / Courier / G OnTrac / Goldstreak / USPS / Other r Custody Seal, Temperature & corrected Temperature & other observation	_
Notes:	Therm. ID: AV7 Corr. Factor: 40.5'	c
111001	Cooler Custody Seal: 731235	
-1/1/1	Sample Custody Seal:	
	Cooler ID:	
	Temp Observed: 2 1 Corrected: 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_
	Yes No No Perchlorate has headspace?	NA S
	Alkalinity has no headspace?	2
		ב
	Sample preservatives verified?	<u>ත</u> ත්
	Cooler compromised/tampered with?	_ _
		_
	Samples w/o discrepancies?	_
	Sample containers have legible labels?	_
		_
	Sample date/times are provided.	_
		ב
and the second s	Multiphasic samples are not present?	er Hanne
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		ם
	Initials: 50 Date: 5/17/19	
	*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1	1/4")

Client: Cardno, Inc

Job Number: 600-185397-1

Login Number: 185397 List Source: Eurofins TestAmerica, Houston

List Number: 1

Creator: Crafton, Tommie S

and the state of t	_	_
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td>Lab does not accept radioactive samples.</td>	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.4, 5.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Client: Cardno, Inc Job Number: 600-185397-1

Login Number: 185397

List Number: 2

Creator: McNabb, Robert W

List Source: Eurofins TestAmerica, Burlington

List Creation: 05/17/19 11:01 AM

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td>Lab does not accept radioactive samples.</td>	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	732236, 732232
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0°C, 1.8°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins TestAmerica, Houston

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5/28/2019

Client: Cardno, Inc Job Number: 600-185397-1

List Number: 185397 List Source: Eurofins TestAmerica, Corpus Christi
List Number: 3 List Creation: 05/17/19 10:24 AM

Creator: Viveros, Ashley D

orcator. Trectos, Asimoy B		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Client: Cardno, Inc Job Number: 600-185397-1

Login Number: 185397 List Source: Eurofins TestAmerica, Sacramento

List Number: 5

Creation: 05/18/19 04:56 PM

Creator: Chang. Edric D

Creator: Chang, Edric D		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	732235
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Cardno, Inc Job Number: 600-185397-1

Login Number: 185397 List Source: Eurofins TestAmerica, Savannah List Number: 4

List Creation: 05/17/19 02:25 PM

Creator: Nobles, Terry G

Creator. Nobles, Terry S		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	